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# FOREST CONTROL

*by*

# CONTINUOUS INVENTORY

"Today I have grown taller from walking with the trees."

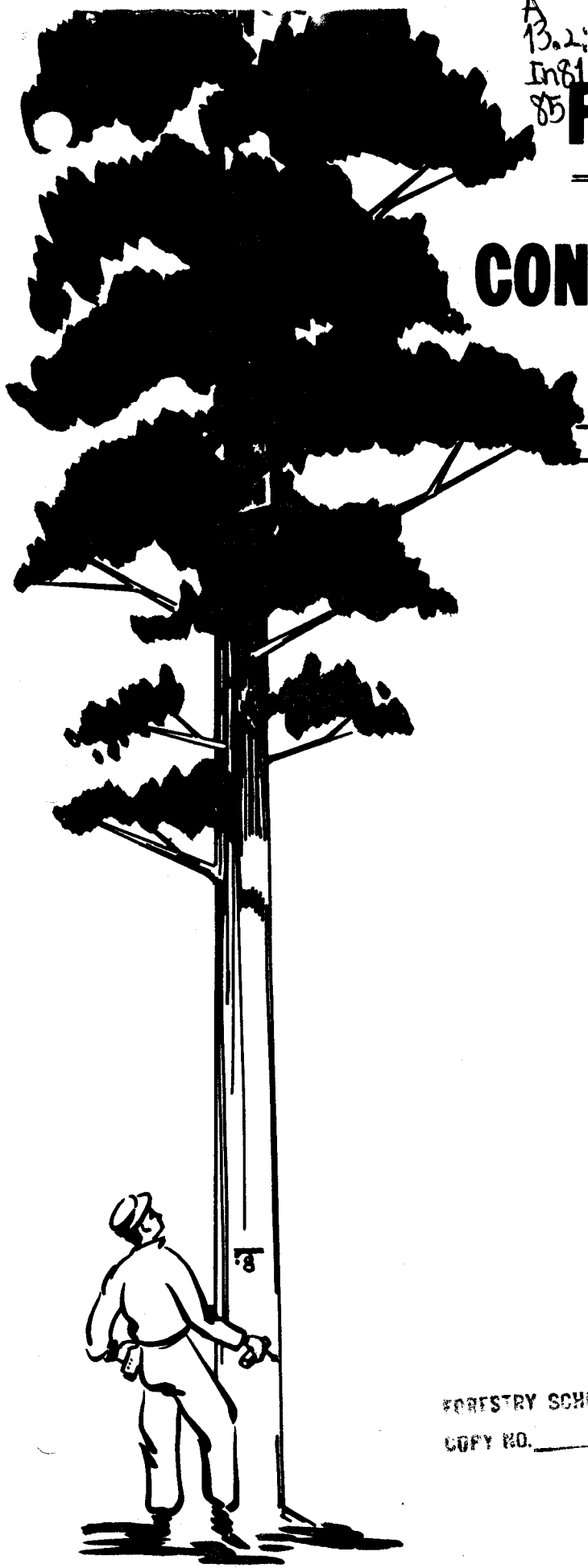
...Karle Wilson

Milwaukee, Wis. April, 1961 No. 85

Have no doubt about it, the time has arrived when we must manage specifically for any thing we want from the land. Every acre is being watched with a single interest. Our renewable resources will be renewed only if we understand their requirements and plan it that way.

Taken from OUR WILD LIFE LEGACY

By Professor Durward L. Allen  
Department of Forestry & Conservation  
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## LOG AND TREE GRADING FOR WOOD QUALITY

### PART II

#### Learning the Log Grading Rules

Forest Products Laboratory log grading rules must be learned, first by rote, and then by repetitive experience in use, before they can be well applied. It is not enough to have the rules on cards or papers for constant reference in the woods. The standards must be held in the mind from whence they can be instantly drawn to grade logs with any combinations of face defect, size, soundness, or hardwood species. Small cards may be made up to cover the standards for factory and tie and timber logs, but these field references should be used merely as tools for learning, or reminders.

Log grading rules as given with the previous Newsletter No. 84 are clear enough after thoughtful study, but it is difficult to learn the rules from these sheets. What is needed is a systematic listing of the numerical values qualifying each grade. Given in the order in which the items will be observed or considered in the woods, or at the log landing, such listings are easily learned.

The attached page gives this information with appropriate definitions. Every cruiser on CFI or timber appraisal work, and all log graders, will find this is a simple listing for learning and for reference purposes.

Attachment

CAL STOTT  
Forester

U. S. Forest Service, Region 9

NUMERICAL VALUES QUALIFYING LOG GRADING FOR WOOD QUALITY  
FACTORY LOGS AND TIE AND TIMBER GRADES  
A systematic arrangement convenient for committing to memory

VALUES	SOUNDNESS
15%	Maximum scaling deduction for sweep in # 1 logs
30%	Maximum scaling deduction for sweep in # 2 logs
40%	Maximum scaling deduction for both rot and sweep in # 1 logs
50%	Maximum scaling deduction for both rot and sweep in # 2 and # 3 logs and tie and timber logs

LOG LENGTHS	
8'	Minimum length of # 2 or # 3 logs and tie and timber logs
10'	Minimum length of # 1 log
12,14,16	Acceptable lengths for # 1, # 2 or # 3 logs

LOG TOP DIB	
8"	Minimum top dib of # 3 logs, 8 to 16 feet, and tie and timber logs
10"	Minimum top dib of # 2 logs, otherwise meeting requirements for # 1 grade
11"	Minimum top dib of # 2 logs, 10' long or longer, with 2 cuttings or less
12"	Minimum top dib of # 2 logs, 8' long, with 2 cuttings or less
12"	Minimum top dib of # 2 logs, 12' long or longer, with 3 cuttings
12"	Minimum top dib of # 1 logs, 10' long or longer, white ash and basswood butts only
13"	Minimum top dib of # 1 logs, butts only, 10' long or longer, 7' cuttings
16"	Minimum top dib of # 1 logs, butts and uppers, 10' long or longer, 5' cuttings
20"	Minimum top dib of # 1 logs, butts and uppers, 10' long or longer, 3' cuttings

NUMBER OF CUTTINGS	
2	Maximum number for # 1 logs
2	Maximum number for # 2 logs, 11" top dib, 10' long or longer
2	Maximum number for # 2 logs, 12" top dib, 8' long
3	Maximum number for # 2 logs, 12" top dib, 12' long and longer
∞	Unlimited number for # 3 logs, and tie and timber logs

LENGTH OF CUTTINGS	
2'	Minimum for # 3 logs
3'	Minimum for # 2 logs, or # 1 logs, butts and uppers, 20" top dib plus
5'	Minimum for # 1 logs, butts and uppers, 16 to 19" top dib
7'	Minimum for # 1 logs, butts only, 13 to 15" top dib
∞	Unlimited for # 3 logs, and tie and timber logs

SUM OF CUTTINGS -- MINIMUM LENGTH IN FACE	
8.3'	Minimum sum of 1 or 2 cuttings for # 1 logs, 10' long
10.0'	Minimum sum of 1 or 2 cuttings for # 1 logs, 12' long
11.6'	Minimum sum of 1 or 2 cuttings for # 1 logs, 14' long
13.3'	Minimum sum of 1 or 2 cuttings for # 1 logs, 16' long
6.0'	Minimum sum of 1 or 2 cuttings for # 2 logs, 8' long
6.6'	Minimum sum of 1 or 2 cuttings for # 2 logs, 10' long
8.0'	Minimum sum of 1, 2 or 3 cuttings for # 2 logs, 12' long
9.3'	Minimum sum of 1, 2 or 3 cuttings for # 2 logs, 14' long
10.6'	Minimum sum of 1, 2 or 3 cuttings for # 2 logs, 16' long
∞	Unlimited number of cuttings, 2' long or longer totalling 1/2 the log length